

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number	10660634
Filing Date	2003-09-12
First Named Inventor	Oksanen et al.
Art Unit	<del>2684</del> 2616
Examiner Name	Unassigned R. Jain
Attorney Docket Number	4208-4146

## **U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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## **U.S. PATENT APPLICATION PUBLICATIONS**

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RJ	1	2443871	CA	A1	2003-02-10	Cho		<input checked="" type="checkbox"/>

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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Application Number	10660634
Filing Date	2003-09-12
First Named Inventor	Oksanen et al.
Art Unit	<del>2664</del> 2616
Examiner Name	Unassigned- R. Jain
Attorney Docket Number	4208-4146

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**EXAMINER SIGNATURE**

Examiner Signature	R. Jain	Date Considered	4-10-07
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First Named Inventor	Oksanen et al.
Art Unit	<del>2664</del> 2616
Examiner Name	Unassigned R. Juri
Attorney Docket Number	4208-4146

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	
BJ	1	7096033	B1	2006-08-22	Bell		
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RA	1	20030203741	A1	2003-10-30	Matsuo et al.		
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Filing Date	2003-09-12
First Named Inventor	Oksanen et al.
Art Unit	<del>2661</del> 2616
Examiner Name	Unassigned R. Jain
Attorney Docket Number	4208-4146

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# RELATED CASE SUBMISSION

Attorney Docket:  
4208-4146

Serial No.:  
10/660/634

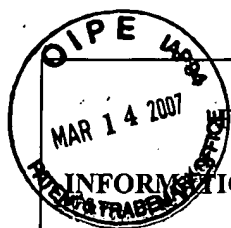
Applicant:  
Oksanen et al.

Filing Date:  
September 3, 2003

Group Art Unit:  
~~2664~~ 2616

## RELATED PENDING APPLICATIONS

Examiner Initial		Serial No.	Filing Date	Inventor(s)	Publication No. or Patent No. (if applicable)	Publication Date or Issue Date (if applicable)
RJ ↓	1	10/660,544	09/12/2003	Palin, et al.	2005-0059345-A1	03/17/2005
	2	10/660,549	09/12/2003	Salokannel, et al.	2005-0058107-A1	03/17/2005
	3	10/694,881	10/29/2003	Palin, et al.	2005-0097408-A1	05/05/2005
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Examiner	R. Järvi		Date Considered 4-10-07			



FORM PTO-1449A

## INFORMATION DISCLOSURE CITATION

Attorney Docket:  
4208-4146Serial No.:  
10/660,634Applicant:  
Oksanen et al.Filing Date:  
September 12, 2003Group Art Unit:  
266T 2616

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Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
RJ	1.	5,307,370	04/26/1994	Eness	
	2.	6,144,464	11/07/2000	Rupp et al.	
	3.	6,172,673	01/09/2001	Lehtinen et al.	
	4.	2001/0049262 A1	12/06/2001	Lehtonen	
	5.	2001/0055356 A1	12/27/2001	Davies	
	6.	2002/0003792	01/10/2002	Schmidt et al.	
	7.	2002/0065099	05/30/2002	Bjorndahl	
	8.	2002/0073269 A1	06/13/2002	Kawashima et al.	
	9.	2002/0080866	06/27/2002	Bouet, et al.	
	10.	2002/0151276	10/17/2002	Ito	
	11.	6,507,734	01/14/2003	Berger et al.	
	12.	2003/0032422 A1	02/13/2003	Wynbeek	
	13.	6,539,503	03/25/2003	Walker	
	14.	2003/0078037 A1	04/24/2003	Auckland, et al.	
	15.	6,571,212	05/27/2003	Dent	
	16.	2003/0100288 A1	05/29/2003	Tomlinson, Jr., et al.	
	17.	2003/0108010	06/12/2003	Kim et al.	
	18.	2003/0137966 A1	07/24/2003	Odman, et al.	
	19.	2003/0148767 A1	08/07/2003	Sugaya, et al.	
	20.	2003/0147453	08/09/2003	Bantra	
	21.	2004/0066762 A1	04/08/2004	Alastalo	
	22.	6,799,287	09/28/2004	Sharma et al.	
↓	23.	2004/0204076	10/14/2004	Kotzin	

Examiner	<i>R. Jain</i>	Date Considered	4-10-07
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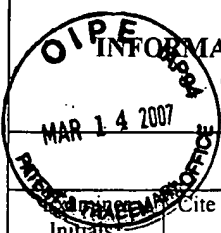
FORM PTO-1449A INFORMATION DISCLOSURE CITATION	Attorney Docket:	Serial No.: <u>10/660,634</u>
	Applicant:	
	Filing Date: <u>9-12-2003</u>	Group Art Unit: <u>2616</u>

<u>24</u>	24.	2004/0219897	11/04/2004	Choi	
	25.	2005/0037775	02/17/2005	Moeglein et al.	
	26.	2005/0078598	04/14/2005	Batra et al.	
	27.	2005/0193309	09/01/2005	Grilli et al.	
	28.	6,961,541	11/01/2005	Overy et al.	
	29.	2005/0283207	12/22/2005	Hochmair et al.	
✓	30.	6,993,343	01/31/2006	Yoshii et al.	

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Examiner Initial		Patent Number	Publication Date	Country	Copy Filed	Translation
<u>24</u>	31.	GB 2 287 383	09/13/1995	United Kingdom	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	32.	WO 99/38302	07/29/1999	PCT	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	33.	WO 99/41876	08/19/1999	PCT	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	34.	EP 0999717 A2	05/10/2000	EPO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	35.	WO 01/45319	06/21/2001	PCT	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	36.	WO 02/21746 A2	03/14/2002	WIPO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	37.	EP 1 185 033 A1	03/06/2002	European	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	38.	EP 1274194 A1	01/08/2003	EP	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	39.	DE 10140446 A1	03/06/2003	DE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
✓	40.	WO 03/084146 A1	10/09/2003	WIPO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No

Examiner <u>R. Jain</u>	Date Considered <u>4-10-07</u>
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FORM PTO-1449B		Attorney Docket: 4208-4146	Serial No.: 10/660,634
		Applicant: Oksanen, et al.	
		Filing Date: September 12, 2003	Group Art Unit: 2661 2616
<b>NON PATENT LITERATURE DOCUMENTS</b>			
Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
RA	1.	Walter Hirt, "Ultra-wideband radio technology: overview and future research", COMPUTER COMMUNICATIONS, Amsterdam, NL, vol. 26, no. 1, February 2003, pp. 46-52	
	2.		
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Examiner Signature	<i>R. Lewis</i>	Date Considered	4-10-07
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Page 1 of 1

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<b>INFORMATION DISCLOSURE CITATION</b>		Applicant: OKSAN et al.		Group Art Unit: 2661 2616			
		Filing Date: September 12, 2003					
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
Ry		2004/0066762 A1	4/2004	Alastalo			02/08/2002
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub-Class	Translation
R		WO 03/084146 A1	10/09/2003	WO			
		WO 02/21746 A2	3/14/2002	WO			
		EP 099717 A2	5/10/2000	EP			
<b>OTHER DOCUMENTS (Including Author, Title, Date, etc.)</b>							
		International Search Report, 6 pgs. (10/10/2005)					
Examiner	R. Jain	Date Considered 4-10-07					
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

## RELATED CASE SUBMISSION

Attorney Docket:  
4208-4146

Serial No.:  
10/660,634

**Applicant:**  
**OKSANEN et al.**

Filing Date:  
September 12, 2003

Group Art Unit:  
Unassigned 2616

## RELATED PENDING APPLICATIONS

[illegible]

**CFORM PTO-149**  
**INFORMATION DISCLOSURE CITATION**

**U.S. PATENT DOCUMENTS**

Examiner Initial		Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
R. J.	1	5,677,927	10/14/1997	Fullerton et al.			
	2	5,687,169	11/11/1997	Fullerton			
	3	6,549,567 B1	04/15/2003	Fullerton			
	4	6,571,089 B1	05/27/2003	Richards et al.			
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	6	2003/0063196 A1	04/03/2003	Palatov et al.			
	7	2001/0055356 A1	12/27/01	Davies			
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	10	2003/0100288 A1	5/29/03	Tomlinson, Jr., et al.			
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	12	2003/0148767 A1	8/7/03	Sugaya, et al.			
	13	2003/0032422 A1	2/13/03	Wynbeek			
	14	2003/0078037 A1	4/24/03	Auckland, et al.			

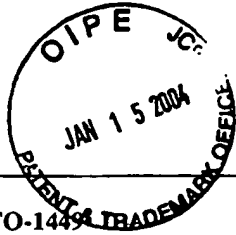
**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Patent Number	Publication Date	Country	Class	Sub-Class	Translation
R. J.	15	1 185 033 A1	3/6/02	EP			
R. J.	16	2 287 383	9/13/95	GB			

Examiner <i>R. J. Jani</i>	Date Considered <i>4-10-07</i>
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<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>		Attorney Docket: 4208-4146	Serial No.: 10/660,634
		Applicant: Oksanen et al.	
		Filing Date: September 12, 2003	Group Art Unit: <del>2661</del> 2616
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)</b>			
RF	17	The Bluetooth Special Interest Group, Specification of The Bluetooth System, Vol. 1 & Vol. 2, Core and Profiles: Version 1.1, February 22, 2001.	
	18	O'Donnell et al., "An Integrated, Low Power, Ultra-Wideband Transceiver Architecture for Low-Rate, Indoor Wireless Systems", Dept. of Electrical Engineering & Computer Science, University of California, Berkeley, Berkeley, CA, 8 pgs.	
	19	P. I. I. Withington, et al., "An Impulse Radio Communication System", "Proceedings of the International Conference on Ultra-Wideband, Short Pulse Electromagnetics", (ISBN 0-306-44530-1), October 19, 1992, pgs. 113-200.	
	20	J. Bray and C. Sterman, "Bluetooth 1.1-Connect Without Cables", Prentice Hall Inc., Upper Saddle River, NJ 1002 (ISBN 0-13-066106-6), Sects. 5.4., pgs. 70-78.	
	21	D. J. Costello, Jr., et al., "Applications of Error-Control Coding", IEEE Transactions of Information Theory, October 1998, Vol. 44, pp. 2531-2560.	
	22	Communication (05/24/05); EP Search Report (05/11/05).	
✓	23	Communication (05/24/05); EP Search Report (04/29/05).	

Examiner <i>R. A. Stein</i>	Date Considered <i>4-10-07</i>
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	Applicant: Zilliacus et al.	
	Filing Date: September 12, 2003	Group Art Unit: Unassigned <b>2616</b>

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
Rg	5,677,927	10/14/1997	Fullerton et al.	375	200	09/20/1994
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	2001/0049262 A1	12/06/2001	Lechtonen	455	41	05/23/2001

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Sub-Class	Translation

**OTHER DOCUMENTS (Including Author, Title, Date, etc.)**

Rg	O'Donnell et al., "An Integrated, Low Power, Ultra-Wideband Transceiver Architecture for Low-Rate, Indoor Wireless Systems", Dept. of Electrical Engineering & Computer Science, University of California, Berkeley, Berkeley, CA, 8 pgs.
	P. I. I. Withington, et al., "An Impulse Radio Communication System", "Proceedings of the International Conference on Ultra-Wideband, Short Pulse Electromagnetics", (ISBN 0-306-44530-1), October 19, 1992, pgs. 113-200.
	J. Bray and C. Sterman, "Bluetooth 1.1-Connect Without Cables", Prentice Hall Inc., Upper Saddle River, NJ 1002 (ISBN 0-13-066106-6), Sects. 5.4., pgs. 70-78
	D. J. Costello, Jr., et al., "Applications of Error-Control Coding", IEEE Transactions of Information Theory, October 1998, Vol. 44, pgs.2531-2560

Examiner <b>R. J. [Signature]</b>	Date Considered <b>4-10-07</b>
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